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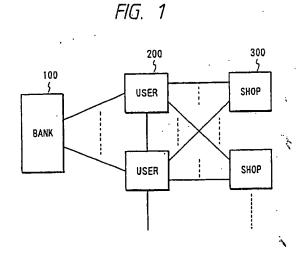
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- (S) Method and apparatus for implementing electronic cash.
- (57) In an electronic cash implementing method, a user makes a bank apply a blind signature to user information Vi produced, by a one-way function, from secret information Si containing identification information, thereby obtaining signed user information. Further, the user makes the bank apply a blind signature to information containing authentication information Xi produced, by a one-way function, from random information Ri, thereby obtaining signed authentication information. The user (200) uses an information group containing the signed user information, the signed authentication information, the user information and the authentication information, as electronic cash for payment to a shop. The shop (300) verifies the validity of the signed user information and the signed authentication information, and produces and sends to the user an inquiry. In response to the inquiry the user produc s a response Yi by using secret information and random information and sends it to the shop. Having verified the validity of the response the shop accepts the electronic cash.





EUROPEAN SEARCH REPORT

EP 90 10 6071

D	OCUMENTS CONSI	DERED TO BE REI	_EVAN	r	
Category		h indication, where appropriate, vant passages		elevant o cialm	CLASSIFICATION OF THE APPLICATION (Int. CI.5)
Α	US-A-4 759 064 (CHAUM) the whole document		1-7	7,12-17	G 07 F 7/10
D,A	US-A-4 759 063 (CHAUM) * abstract; claims 1-20, 26-38; figures 1-7 *		24	20, -31, -48	
A	Advances in Cryptology - E Berlin - DE Thomas Beth: " KNOWLEDGE IDENTIFICA" CARDS" * pages 77 - 84 *		1-1	15	•
Α .		RYPTO '86 August 1986, Be to Prove Yourself : Practical		20, -44	
P,A,D	EP-A-0 348 812 (NIPPON TELEGRAPH AND TELEF CORPORATION) * the whole document *		ONE 1-!	1-52	TECHNICAL FIELDS SEARCHED (Int. CI.5)
					G 07 F H 04 L
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	The present search report has t	een drawn up for all claims			
Place of search Date of completion of search			ch		Examiner
The Hague 16 August 9 CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same catagory A: technological background O: non-written disclosure P: intermediate document			E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document		